

A SECURE NETWORK AND METHOD OF ESTABLISHING
COMMUNICATION AMONGST NETWORK DEVICES THAT
HAVE RESTRICTED NETWORK CONNECTIVITY

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ABSTRACT OF THE DISCLOSURE

A secure network is provided which includes a plurality of anti-bubbles having a plurality of anti-bubble partitions. Each anti-bubble partition has at least one network device configured to transmit and receive data. All the network devices that belong to or correspond to a particular anti-bubble have the same network security policy. Data may not be transmitted between two network devices in the same anti-bubble or two network devices in different anti-bubble partitions of the same anti-bubble. The secure network also includes a plurality of network control points, which has one or more network control point devices having at least one interface. Each anti-bubble partition is connected to at least one network control point. The network control point is used to provide a connection between at least two network devices. Each network control point device is configured to enforce the network security policy of all the anti-bubbles that are connected to it. During the transmission of data from one network device to another network device, one or more network control points are traversed.